Approved For Re	=igase 2004/05/	13 . CIA-RI					
LOCKHEED AIRCRAFT CORE	s.	Gineering Ange prop		X	l.A.C	-98	OF
DATE 4-3-61	AF	FECTS:	WSP	o X	PR	OJECT	X)
NAME OF MAJOR COMPONENT ATRPLANE	PART OR L	OWEST SUB		P	ART NO.	& MODEL	OR TYPI
TITLE OF PROPOSAL :	म्बाह्य द	STEM REV	TOTON				
NATURE OF PROPOSAL:	TOEB D	DIEM REV.	ISTON	·			
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NATURE OF PROPOSAL:

Design Study

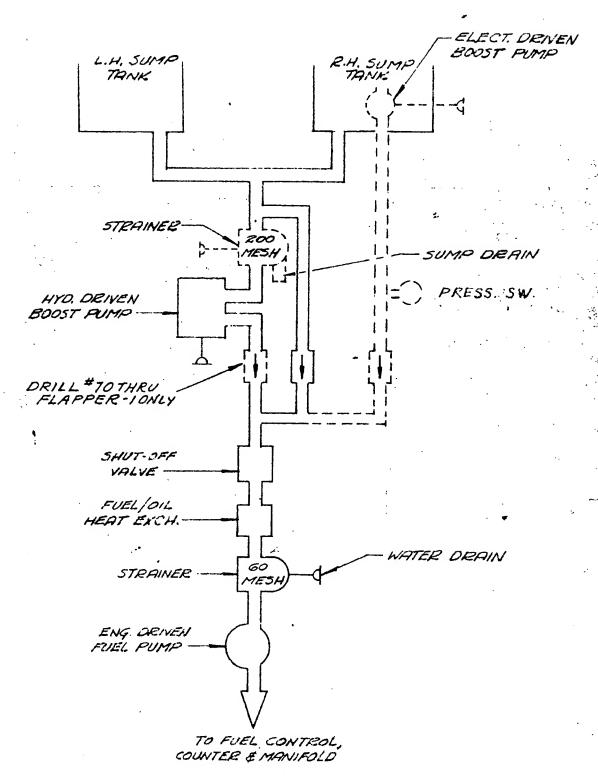
- 1. Modify the fuel system in one aircraft (692/359) by installing an electrically driven fuel boost pump with related plumbing, wiring and cockpit controls. This has been accomplished as Contract SP-1918 Product Improvement.
- 2. Performance data to be obtained from operation of the aircraft at LAFB over a significant period (approximately 3 months).
- 3. This test installation will be replaced by the standard installation (outlined below) at a convenient time at the conclusion of operational tests.

Change Proposal

- 1. Modify the fuel system on all aircraft (except serials 342 & 358)* as follows:
 - a. Replace the existing Chip Catcher (P'N H-80) with a 200 mesh strainer.
 - b. Install a submerged A.C. electric motor driven boost pump in the right-hand sump tank. Install related plumbing to connect pump in parallel with the existing boost pump and bypass line. This includes the addition of two new check valves; one in each boost pump fuel out line, and a pressure switch between the check valve and the new pump (see attached diagram).
 - c. Replace the existing sump tank overflow light in the cockpit with a fuel pressure indicator light (elec. boost pump only) and install pilot's control switch. Install power relay on Q-bay "CB & Relay" panel and install system wiring.
 - d. On all aircraft remove the overflow float switch from the sump tanks.
 - * NOTE: These fuel system modifications previously authorized for incorporation on a c serials 342 and 358 in conjunction with In-Flight Refueling provisions under approved ECP No. IAC-101.
- 2. Prepare and issue a Service Bulletin.
- 3. Fabricate appropriate aircraft provisioning kits.
- 4. Installation of kits can be accomplished in the field. Modification of sump tanks to incorporate pump flange must be done at the factory on a turn around basis unless the entire program is scheduled for IRAN.

)	ESTIMATED COST FOR KITS OR PA	RTS:		OTAT
	Customer No. 1			STAT
STAT	Six (6)* kits @	kd	t (SP-1917)	
STAT	Modification of	R/H Sump Tar	nk (6 ea.) (SP-1918)	
·			ı	
•	RECOMMEN	DED SPARES (S		
	Part No. Descript	ion Qty.	Unit Price Total Price	STAT
	301385 Strainer A 8501-1 Strainer S *** 219200 Pump 310900 Check Valve M410G-10A-42 Press. Swi AV16A1185 Valve 475C-58NW Valve	creen 4 6 e 5		
3				
			TOTAL PRICE Customer #1	
,				STAT
<u></u>	* Two kits to be manufactured Program.	d and install	ed under the Aerial Refueli:	ng System
	** Quantity factored by four ECP-101 Aerial Refueling S		ps ordered on P.R. 61-147 f	or
	Customer to obtain spares for	the followin	g from AF assets:	
		35058-22 Swi 3312-1 Rel		
	Cost Recap - Customer #1			
	Total Cost SP-19: Total Cost SP-19:			STAT
	GRAND TOTA	AL		

)	ESTIMATED COST FOR KITS OR PARTS:	0.7.4.7
	Customer No. 2	STAT
STAT	Thirty-one (31) kits @ kit (SP-1917) Modification of R/H Sump Tank (31 ea.) (SP-1918) tank	
· ·	· · · · · · · · · · · · · · · · · · ·	STAT
	RECOMMENDED SPARES (SP-1917)	STAT
	Part No. Description Qty. Unit Price Total Price 301385 Strainer Assy. 4 8501-1 Strainer Screen 10 219200 Pump 16 310900 Check Valve 12 M410G-10A-42 Press. Switch 24 AV16A1185 Valve 12 475C-58NW Valve 12	
9	TOTAL PRICE Customer #2	
9	Customer to obtain spares for the following from AF assets: MS 35058-22 Switch AN 3312-1 Relay	STAT
	Cost Recap - Customer #2 Total Cost SP-1917 Total Cost SP-1918 GRAND TOTAL	STAT
	SCHEDULE (Both Customers) 180 days from date of approval	



FUEL SYSTEM DIAGRAM

SHOWING PODED ELECTRICALLY DRIVEN SUBMERGED BOOST PUMP & COO MESH STRAINER

EXISTING SYSTEM

ETT - ADDED COMPONENTS

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